

Docket No. 248255US2RE

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Junichi HAGIHARA, et al.

PATENT NO: 6,344,752

GAU:

ISSUED: February 5, 2002

EXAMINER:

FOR: CONTACTOR AND PRODUCTION METHOD FOR CONTACTOR

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, MCCLELLAND,  
MAIER & NEUSTADT, P.C.

  
\_\_\_\_\_  
Gregory J. Maier

Registration No. 25,599

Customer Number

**22850**

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 05/03)  
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Robert T. Pous

Registration No. 29,099

Docket No: 248255US2RE

Serial No: NEW REISSUE APPLICATION

STATEMENT OF RELEVANCY

- ☒ The relevance of JP 11-145172 discloses a contact structure made by etching, photolithography, etc.
- ☒ The relevance of JP 11-133062 discloses a cantilever-shaped contact structure made by photolithography.
- ☒ The relevance of JP 8-50146 discloses an elastic contact element which has a contact tip end made by anisotropic etching and which is supported at one end.
- ☒ The relevance of JP 7-283280 discloses a contact element which has a contact tip end made by anisotropic etching.
- ☒ The relevance of JP 9-148389 discloses a probe card having a cantilever-shaped contact element made by photolithography.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 248255US2RE		SERIAL NO. NEW REISSUE APPLN	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Junichi HAGIHARA, et al.			
				FILING DATE HEREWITH		GROUP	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	5,476,211	12/19/95	I.Y. KHANDROS			
	AB	5,832,601	11/10/98	B.N. ELDRIDGE, ET AL.			
	AC	5,828,226	10/27/98	H.D. HIGGINS,, ET AL.			
	AD	5,625,298	4/29/97	T. HIRANO, ET AL.			
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES                      NO		
	AO	11-145172	5/28/99	JAPAN (with English Abstract)			x
	AP	11-133062	5/21/99	JAPAN (with English Abstract)			x
	AQ	8-50146	2/20/96	JAPAN (with English Abstract)			x
	AR	7-283280	10/27/95	JAPAN (with English Abstract)			x
	AS	9-148389	6/6/97	JAPAN (with English Abstract)			x
	AT	10-38916	2/13/98	JAPAN			x
	AU	8-15284	1/19/96	JAPAN			x
	AV	7-253435	10/3/95	JAPAN			x
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AW						
	AX						
	AY						
	AZ					<input type="checkbox"/> Additional References sheet(s) attached	
Examiner					Date Considered		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
248255US2RESERIAL NO.  
NEW REISSUE APPLN

## LIST OF REFERENCES CITED BY APPLICANT

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HEREWITH

GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
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	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	5-29406	2/5/93	JAPAN		x
	AP	9-281144	10/31/97	JAPAN		x
	AQ	4-78037	3/12/92	JAPAN		x
	AR	5-231815	9/7/93	JAPAN		x
	AS	6-308164	11/4/94	JAPAN		x
	AT	6-18555	1/25/94	JAPAN		x
	AU	10-206462	8/7/98	JAPAN		x
	AV	7-63548	3/10/95	JAPAN		x

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	
	AX	
	AY	
	AZ	<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

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